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A study of absences in relation to grades and mental ratings

By

Bernice Bowman Scovell

A.B. (Colorado College) 1916

THESIS

ubmitted in partial satisfaction of the requirements for the degree of

MASTER OF ARTS

in

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in the

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of the

UNIVERSITY OF CALIFORNIA

Dec. 1922

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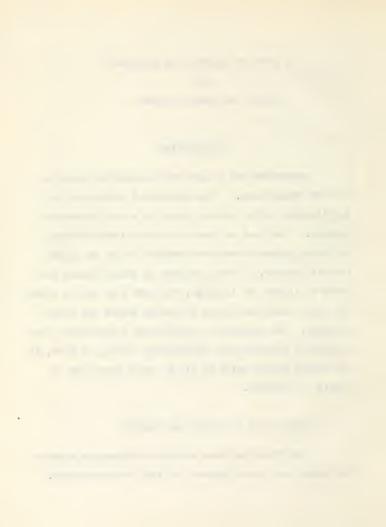
MAL B D . . L RATI GS.

I: IKODUCTION

Attendance has always been considered essential to good school work. The relation of attendance to intelligence and to school grades is a very important problem. Now that we have both intelligence ratings and class grades it becomes possible to get an ansier to this problem. Then a student is absent either becomes of illness or laziness, the fact that he has assed his class exercises should a riously affect his class standing. The misses the Instruction, inspiration, coor ration, explanations, as imments, drill, in fact, if the school should exist at all it would seem that it should be attended.

COR L IO O GRADES AD I ALTH

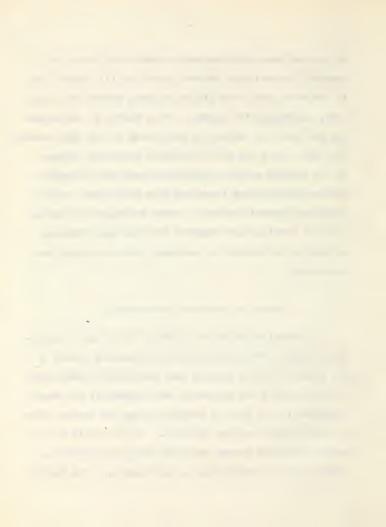
That there has been a close relationship between ill mealth and school grades has long been discussed.



It has not been satisfactorily proven that there is a very high correlation between grades of ill moulth, but it has been shown that ill mealth does effect the school work, especially the grades. This factor in attendance has not been the subject of much study in the ligh schools. The ligh School has been considered important because of its subject matter, therefore grades have probably been considered are important than attendance, health and other general factors. Since compulsory education has are forcing more students into the high Schools, a study of attendance in secondary schools becomes nore important.

OWELD IN MEN W. IDA C.

Irregular attendance might be found due to nu erous factors. The occupations and financial status of the student and his parents have considerable influence. If both parents are employed, quite naturally the home influence is not felt as beenly as when the mother finds no other duties outside the home. If the child is an orphan, with one parent employed, the said condition, except in very unusual cases, would exist. Ill health



on the part of either or both prents often neces littles frequent absence as well as ill health on the part of the pupil himself. Tuith often is a duties, because of parental employment or illness, necessitates the pupil remaining at home at irregular intervals with the consent of the parent. Then too, irregular attendance is found and pupils whose up as are not effected by financial and, a distaste for school activities leader after to truancy or absence because of a very slight excuse.

But as entially, absence is caused by actual ill health, oring to our stringent attendance laws if truancy officers co-part to with the school officials and parents of the students.

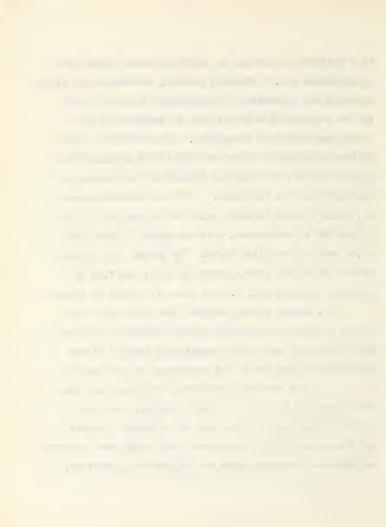
ALSI ID A DAICE.

there "is a consistent relationship between physical defects on class standing, that the normal child excells those having physical defects, although the advantage in completed took is not as a read as that in class standing,

Contains the contains of Children and their school Process.



that children marked one in nutrition stand ligher than those arked two. Physical defects, attendance and class standing are conductive to intermittant absence, which in the course of the school year is destructive to a higher percentage of attendance. The results of intermittant attendance may not be seen in the progress from grade to grade, yet they are evident in the standing of the individual in the class. This is demonstrated in the individual in which 34.9% of the public in class I, ave 95% in attendance, while in Character they have 20.5% and in Class III, 16.3%. The groups the students about 54% of the school period or less, and 7.8% of the are in group III, 2.3% in group II and 1% in roup I.



as in most cases it would be impossible to 1 olate the difference in their bearing to school progress. However the study does not point out that correlation between any of the factors and convector of work done in school is notitive and as such merits the careful consideration of administrators, supervisors and teachers."

or. Reeves considered children of the first

DIT IN COLUMN DESCRIPTION.

Dr. Cornelle's investigations determine that there is not much difference in the grades of defective thildren and normal. This would have some bearing upon attendance, as normal children are logically more regular in attendance than the sub-normal. The tables of Dr. Cornelle give the following results:

Percentage in studies.

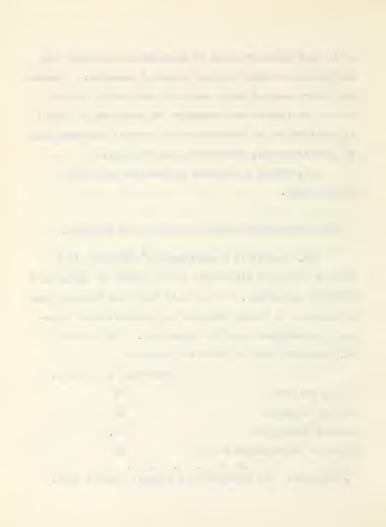
de mi Children 75

.v. 25 Children 74

General Defectives 72.6

denoids and enlarged tonsile 72

?. Cornelle. The Psychological Clinic, January 1908.



ent of defectives was bigger and, students not exempt from animations than aren; those exempt.

Dr. remover of Philadelphia, in a similar study as matted by L. P. A res³ in his article considering contact the brighter children seemed to be afflicted a out the brighter children seemed to be afflicted a out the difference between defective bors and girls. The study brings out the fact that "retarded and a coverage pupils have fever defects than normal pupils".

The study brings out the fact that "retarded and a coverage pupils have fever defects than normal pupils".

The number of defective and considering the number and defective and considering but the dull child is found to be one defective in degree."

LT JI. AID A TADATII.

In a study in Her Jersev by superintendent J_{\star} . From of the thusand trenty children, found in the same

3. Tr. J. L. P. Alrican Physical action eviet, Vol. 14. Physical Defects and school process.



age in the respective grades, 28.5, were due to above.
actormined that expectation and that the bearing of

the cause of retardation and that the bearing of

the cause of retardation and that the bearing of

the carry 'Oo of the centally more all children have

breited defects, while only 'Oo of the expectage of defective

children in the lower grades is higher than in the upper
cross.

r. ryan states in his conclusion, "to have that age is important and must be considered. "edical importion can prevent above and save lives, school doctors will make it easier and happier, but the royal road to learning cannot be found in the surgeons made. Old fashioned industry, application, intelligence and regularity will held stay and reasons for poor scholarship are starting, absence, laziness, and stupidity."

APTIMATEUR AND COULTERING.

e ce that he sees absence as me of the contri-



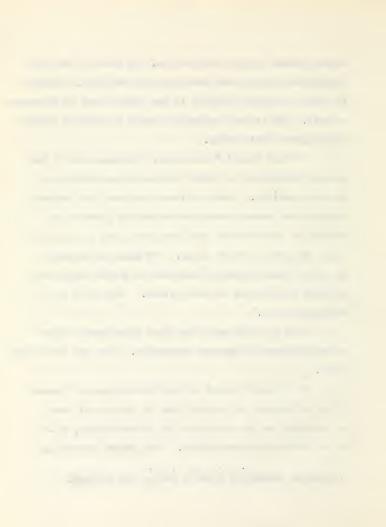
to ory cause of por the latter. It is not not ele logical conclusion that such bulk retts case, although it is, it to are original to the graces than in a condary retted. It is such occasional biots in verious studies that succests this study.

The find the property of the children of the transfer that the transfer they feel they must rank high or the best in their class. By under expenditure of offert these children countries do attain him rank in van first place in their class. But it is at the transfer countries.

Thu it could seem that poor scholarship in bt contributory to absence indirectly. The tro are inter-

In a recent report of the Comissioner of ducation, ashington, of the per cent of the school term not attended by the pupils of the United States, 25.42 of the school term was wasted. The lowest percentage

^{4.} essuring ints - 10 son and Carpany.



was in Indiana, 7.1%, the highest 41.1% in Kentucky.
California is recorded twenty seventh in the list with ?
28.5%.

S. C. Courtes⁵ of Detroit in his article, says that in the average school system about forty per cent of the children make the same or lover scores at the end of the year and that only one child in five makes a reasonable gain.

DEFESTE UD PROGRESE.

Lannard Ayres, 6 associate director of the Courtnext of Cild vgiene of the Cursel are Foundation,

for that the average number of grades corolated by

public during the Unite there was nine per cent

less than those Living no physical defects.

The following table town from his article lives

.

vol. 2. Joseph and and anti-order to between Physical and antalorouth.

6. Mrss, Leonard: A rican Physic 1 Jucation eviet, 11. 12. 11 In The english of Defects and school Progress.



the number of years necessary for eight grades:

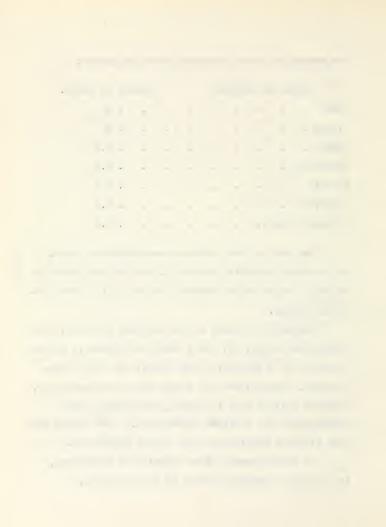
	Kin	ds of	Def	ects:	3		-	umbe	J.	of Years.
llone	٠	•							٠	8
Vision			٠							8
leeth		0				•		0		8.5
Lreath	ing		•					•	•	8.6
Ionsil	8								•	8.7
Menoi	ds									9.1
nlarm	ed ri	lands	3.							9.2

One half of the children have defective teeth, our in seven defective breath n, one in four defective toutils, one in eight adenoids and one half of the enlarged lards.

In another article on the relation of check and collect to be lth, r. yers anys "Our he lth is better than that of a generation and, statistics and we are stronger, longer lived and larger than our foraf there.

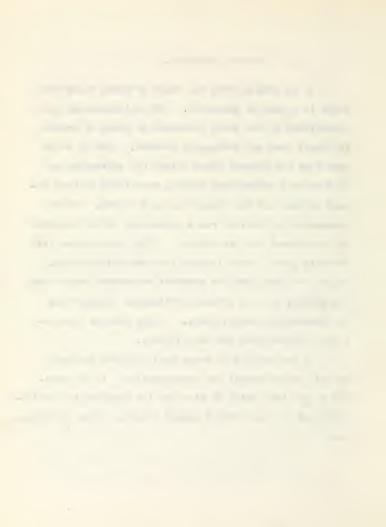
The collect will it larger, one reser, los nervous the there is inary modecator. The school must deal with the physical actual as the pertulant."

As health bears a close relation to attendance,



It is obvious from the study of these cases that there is a lac of agreement. The relationships were established in the above instances in terms of grades in school tork and attenda ce records. Now it would seem that the teacher often allows the attendance record to be a determining factor, es ecially if that record is poor and the student in good health. ruer discussion is derived from a co pari on of the capacity of the student and his grades. This combination will roughly give a clear losi to into the relation hip. Icu te not only have the students attendance record and is grades, but his actual intelligence rating found by standardized mental tests. There must be some relation between them and mental tests.

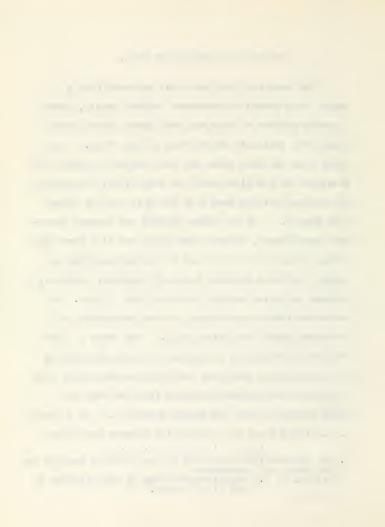
Do our schools of today deal with the physical as well as the mental man cuccessfully? Is it possitive to get this point of view and its relation to intelliptence and the high school grades from the study of artendard?



A. T. C. L. C. L. DO. V.

The data for this study was gathered from a enjor lick School of seventeen hundred pupils, about furteen buildred of thom had been given cental tests thick were available at the time of the stury. tests that had been given and the results of which were available in the files were the Army Alpha, rom seven, the Oakland Tidition form A of the Otis and the Lar an Of the cases studied one hundred seven-Tout Form B. toon were Ter an, thirty seven Alpha and five were his tests, of in to the fact the, it was now possible to select the three distinct to are of students, userior, average and below average from the troe f test. It samed advisable to do this, for the correlation of the three tests rune fairly inh. The study is the definitely defined by confirm the cases strictly to tle three groups and using the three tests, r + | r tlan ye tie times selected entirely from one test and er e gradu lly from on group to another. In tudy . . ill 7 fir s ti corr lation between the Ter an

^{7.} The Twenty-First Year Book of the Until nal Society for the study of fire tion:iller, I. S.: Administrative Use of Intelligence in the Minh Edwards.



and Alpha scores to be .323, and bett in the "tis and Alpha to be .716. The correlation between the "tis and "erman is .741, so there is practically no error and the use of the above is as reliable as if the "ar an Tost only had been used in the study.

In a Junior High chool study, 7 other tests correlated as follows: .851, .565, .587, indicating there is a close correlation between the majority of the tests, although the highest correlation was found between the lational call A and the entirety lest, tests not used in this study.

OFF WARD, STO.

These on bundred fifty nine students thus relected tene alphabetically arranged and the standance record for the entire school for three years (being the longest nation any one student had been in school) was examined in order to secure their respective records. The attendance records were kept in books, two for a period of four reads, in which the new of each advant is re-

.

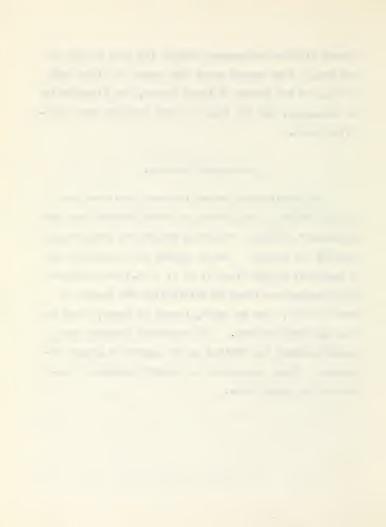
^{7.} rabue, . . . he we of Intelligence est in the



corded with his attendance distory for each social of the day. This system meant the survey of fixty such the day, and the number of times absent, the distribution of absences, and the real as where possible were confully noted.

SUTTLEMENTS AVENAVE.

The scholarship record for each pupil for his entire period in high school was then accurad from the tecretary's files. From this record his scholarship average was found. As the grades were indicated by a numerical system (i.e. 1, 2, 1, 4, 1,) the scholar-colp average was found by multiplying the number of cases by nine, twos by eight, threes by saven, fours by six and fives by zero. The resulting products were added together and divided by the number of grades recorded. Table one gives the complete process of securing the grade index.



Inclish (la)		I	I	(lb)	I					
Wathematics (2c)		I	II							
Lan wage	(56 ³)	I	I			9	X	11	23	99
	(2c1)		II			8	X	3	22	94
	(5b4)		I		_1	4	0 0	_12	23	
	(5e ²)		I						<u>=</u> 3.	.78
	(3b)		I							
Danst 10	acience	I	11	17						

(1a) (2c) stoeters, represent University normalizate only, as used in the record cards.

In relief this norticular student had three ones, in both ratics a one and a two, in Do eath relief two cas and a two, in Language five ones and one two, in the Language five ones and three twos. In total number of ones was multiplied by mine and the total number of twos by eight. The run of three products was one funded twenty-three. This result was divided by fourteen, the total number of grades consider m, iving a result of 8.76. The decimal point was loved one place to the right, jiving a chalarship average of 87



in the terms of the intelligence quotient which is in the retio of one hundred.

COMPLANTON TO I. O. AND LOTEL HENTE.

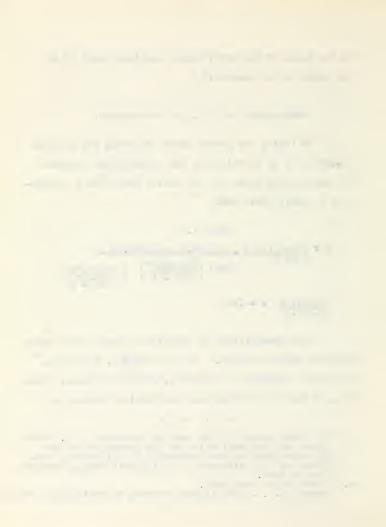
In taking the entire group and using the reason coeff and of correlation, the intelligence martient make for the entire group had a correlation of .557, table two.

TALL I.

r =
$$\frac{1}{n} \frac{(x \ y)}{b^2} = \frac{14,354.3}{(159)} = \frac{(159)}{(159-1)} = \frac{(3,197.51)}{(159-1)}$$

from the resemblation. In the process of the others from the resemblation. In the process of the strong of the str

9. Trahue, .R. - Intellience vesting in Junion ligh clock.



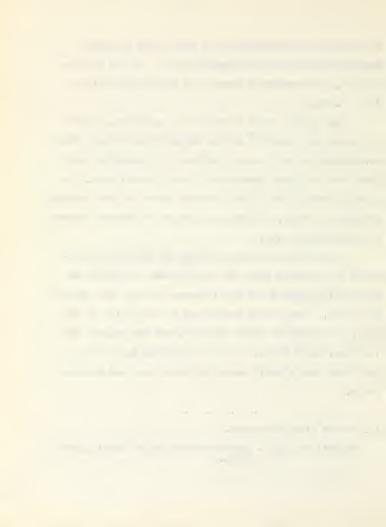
Object and windered a convention. The only convention of the conve

In and is a today four in the say abook, whiten the region Less Contuil 10 of the Jarsey coats for al, the correlation of .50 and ..., belief its Mondian it econe of the first corrector of constant in 1 and . In another about of the first constant of five coaled free an of two p, columbia and but; y, least like accorts a contest time of .85.

To taking the data in rough of fifty throughter that is conding order of intelligence cum lents, no correct time extend the intelligence must be in a grades too found. The locat proud gave a correlation of .12 along the color of minus .07 along and the highest of .14 plun, table times. This is probably due to the fact that such a small number of cases are used in each grant.

10. menty Miret Toay That.

Taball, E. S.: - We intrinsion of Inhall more



Correlation of T. O. and whome brade.
(In process of TV, according order of I.O.)

Groups

Correlation

Lovest

.13 plus

lell on

(minus) .07 plus

limbest

.14 plus

In completion with a rist large grown to abusines

int for for a sill stong there is the he little or a .

correction. Using the main data, but is im demanding and a of graden, there is still no correlation;

table from.

"MAN TV .

Correlation of I.f. and Average Contact (In provide of 13, Passe Min; order at person)

Group

orrelation

Martest

.29 plus

Wallan

.09 minus

Loost

. 1)4



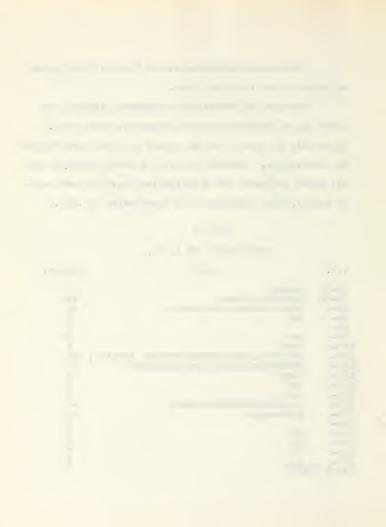
This simply corroborates the facts in the groups of cor elations in table three.

The lack of correlation suggested plots in the curve and to found the curves irregular, table five.

Since this is true we cannot expect a higher co-efficient of correlation. Movever if all are taken together, and all cases included, the distribution would be more nearly normal, thus justifying the correlation of .557.

TALL V
Distribution of I. Qs.

I	Cases	Mumber.
70-74	1 xxxxx	5
75-79	XXXXXXXXXXXXXX	14
80-	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	24
85-	xx	2
90-		0
95-	XXX	3
100-	XXXX	4
105-	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	28
110-	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	30
115-	XXXX	4
120-	XX	2
125-	XXXX	4
130-	XXXXXXXXXXXXXXXXXXXXXX	23
135-	XXXXXXXXX	10
140-		0
145-	XX	2
150-	xx	2
155-	X	1
160-	X	1
Total	159	



DISTRIBUTION OF I.Os.

The distribution of intelligence cuctient in table five are marked in groups of five, the first group from seventy to seventy four, contains five cases; the second, seventy five to seventy nine, contains forteen cases; the third, eighty to eighty four, etcetera.

In table six, the distribution of intelligence cuctients is worked out in groups of ten. From seventy nine there are nineteen cases, eighty to eighty nine, twenty six cases et cetera. In this group the median intelligence cuctient is found to be one hundred nine, the lowest intelligence cuctient, seventy, the highest one hundred sixty nine, making a difference of forty three letteen the first and the fourth, and a difference of eighty one between the lowest and the highest; table seven.

.

TABL' VI.

I. Q.	Uases
70-79	19
39-89	26
90-	3
100-	32
110-	34
120-	6
130-	33
140-	2
150-	5
160-	169

TABLE VII.

Median I.	Q.	109
Cuartrile	I	84
Quartrile	IV	127
Lorest I.	Q.	70
lighest I.	, Q.	161

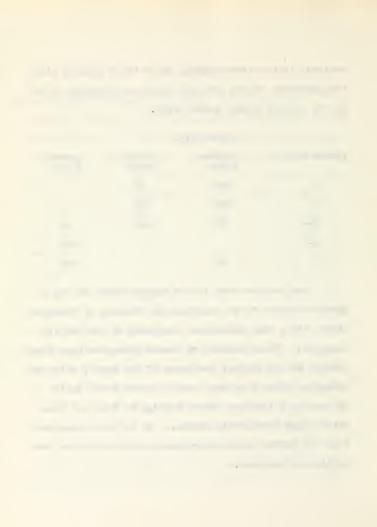
LETTE GRADES.

For the sake of convenience in describing the students a letter grade was assigned in terms of their intelligence quotient and grades plus the classification of their advisers. The per cent of letter grades was found in thirds of students according to intelligence. In group A, ninety four per cent were in the highest third and six percent in lowest. In group B, seventy five per cent were in the highest group, trenty five in the edin group. In the C plus groups seven por cent vere in the highest, eighty eight in the median and five in the lowest third. In group C, one hundred per cent came in the lowest third, in Group D, two per cent in the highest, none in the middle third and ninety eight in the lowest. This demonstrates some correlation between teacher's grades and intelligence tests. The mental test results of the individual students are enerally unknown to their class teachers. Some of the students rated A, or B, or in the first and second section, fall in the lowest third. Those in the third section plus, the C plus group, come largely in the median group, a larger per cent in the upper than in the lower. The C and C minus grades fall

entirely in the lowest third, as do the D grades, with the exception of two per cent which surprisingly falls in the highest third, table eight.

	TABLE VIII.				
Letter Grade	Highest Third	Middle Third	Lovest		
A	94%	6%			
В	75%	25%			
C - 1-	7%	88%	5,0		
C-			100,0		
D	2,0		98%		

The two per cent in the highest third in the D group was found to be comprised of students of foreign birth with a very inadequate knowledge of the inglish language. This handicap of course prevented them from passing in the general knowledge of the tests, while by intensive study they were able to learn their daily less one in a language almost foreign to the and thus attain high scholarship grades. It is quite apparent that the letter rating correlates closely with the intelligence quotient.



By dividing the students i to three gross accordin, to intelligence quotients, the lighest third was one hundred per cent, in the "ille eighty eight and in the lo est cility six per cent. In the lighest group the median scholarship was eighty six, the median scholarship in the middle third was seventy seven and in the lowest. seventy five. While in the lowest selolar hip group the highest was sixty eight, the middle third, fixty and in the lowest third, sixty. There was a difference of forty between the lighest third of the highest group and the lowest third of the lowest scholarship group. The rightst third of the median scholarship is four points lover than the lowest third of the bighost roup, wile the locast third of the median scholarship is seven points light an the milest of the lo est group; table mine.



TARLE IA.

According to Intelligence Quotients.

	lighest Third	iddle Turd	Lowest
Wedian Scholarship	82	77	75
Lorest collarship	80	60	60
li hest Scholarship	100	83	86

There is evidently a greater variation between those in the bignest and middle than between the middle and the lowest.

ASSIGN D THE US HD I. S. CO PARD.

The intelligence quotients were listed according to as igned ratings, median intelligence quotient, highest intelligence quotient and the losest compared. The median intelligence quotient of each group was lover than the group above; as in group 4, median intelligence quotient was 130.5; in group 1 110.5 et cetera. In the same order, no ever, in the highest intelligence quotient



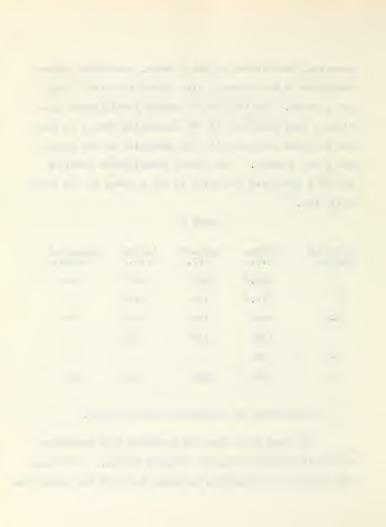
grouping, the birlest in the D group, was thirty ligher than that of the C group, also higher than the C plus and P group. In the list of lovest intelligence quotients, they also we e in the descending order, as were the as igned ratings, with the exception of the case of the A and D group. The lowest intelligence quotient in the A group was 107 while in the B group it was 110; table ten.

TABLE X

Assigned Rating	Median I.Q.	Tichest I.O.	Lovest	number of
A	133.5	161	107	48
В	116.5	123	112	4
C+	109	114	96	56
С	100	103	95	5
C-	89			1
D	80	153	70	45

SCHOLARSLIP AND AS ICH DILL ING CONFULD.

The same group were put together with reference
to scholars in according to as igned rating. It highest grade was one hundred, in group A, hill the lowest was

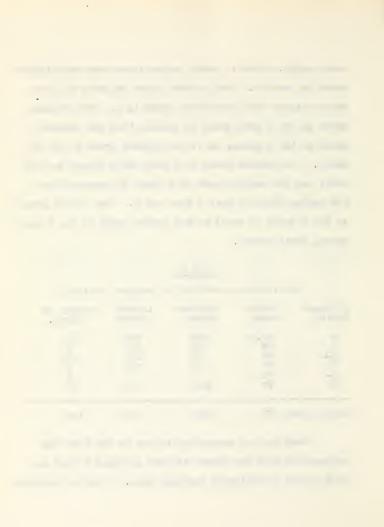


sixty eight, thich is even points lover than the livest grade in group B. The lighest grade in group L is two points bigher than the median grade in A. The highest grade in the C plus grade is greater than the highest grade in the B group, as is the highest grade in the C. group. The median grade in C plus and C groups are the same, and the median grade of C minus is greater than the median grade of both C plus and C. The lowest grade in the D group is could to the lowest grade in the C plus group, table eleven.

TABLE XI.

Rating	Tedian Grade	Highest Grade	Lovest	cases.	
A	82.5	100	33 75	48	
0.4 C	77	88	60 76	56 5	
C-D	30 77	100	60	1 45	
				THE SECTION OF THE PARTY OF THE	
Intire gro	מנ 77 מנ	100	60	159	

From the two preceding to bles we see that the scholar hip one not agree with the accigned ratio, as tell as the intelligence quotient does. This is trombly



on to the fact that proceed by personality, mile the intelligence custions, agreed to with the amily ed rations, are now representative of the students' actual concity.

In table level bich is a convision of Intelligence quotients and grades, there is a correlation between the assigned ratings and the intelligence quotients with the execution of an or two unusual cases.

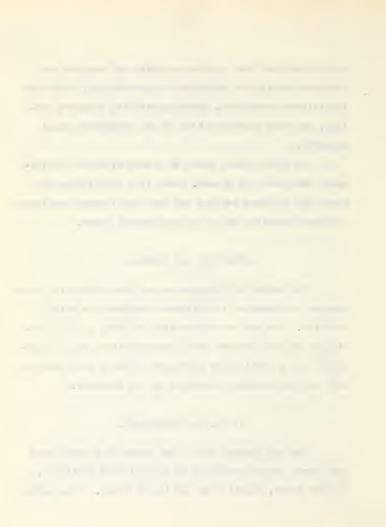
A DIG. AD G DE.

The matter of autodance and its correlation ith teacher's grades and intelligence quotients is till a question. The area of an anti-correct to bring a first correct according to the could be applied for it necessarily vertex according to the could be applied to the could be applied to the statement.

I. Qs. AND MINITED.

The one mindred fifty nine cases or a sampled into three groups according to intolligence quotients, himset toird, middle toid and local toird.

est.

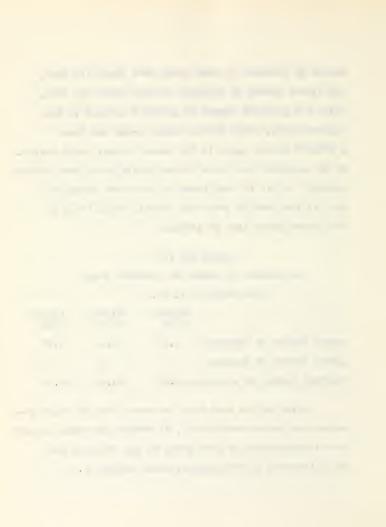


number of absences in each group were about the many, the lovest number of absences in each group was zero, while the greatest number of absences occured in the highest third, fewer in the middle group and then a greater number again in the lowest third; table toolve. It is possible that those in the middle group have better health? Or is it that those in the under group fiel less in the need of attending school, while those in the lowest group find it inksome?

Attendance by Plinds of Students Groun according to I. Os.

	inhest Third	id le Tird	Lorest
dian number of absences	1.5	2.0	2.75
Lorest Number of absences	U	O	0
Greatest lumber of absence	s 59.25	21.5	30.75

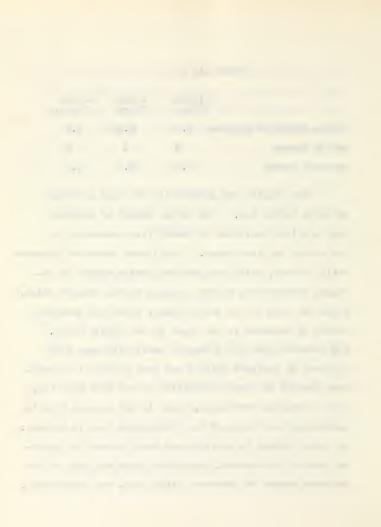
oring to the fact that the case, that of \$2.25 absences was rather exceptional, it seemed advisable to omit the righest number of each grown to see if there are an difference in the results; table trelve, b.



AFE XII (b)

	ighest l'ird	Middle	Lorest Third.
dian wher of absences	1.5	2.35	3.5
Lereut lumber	0	0	0
Crostest lu ber	34.75	30.5	32.5

The results are practically the sale as those of table twelve (a). The edian number of absences show a slight variation of twenty five hundredths in the ddle and last group. To lo est nu her of absences still is zero. bile the greatest redian nu ber of absences continues to be the highest, in the lighest third, al oct as ich in the love third. while the grotest nu ber of absences is the least in the iddle t ird. The substantiates the state ant praviously made that children of redictre ability are or regular in attendance because of their recomition of the fact that they rain by remlar attendance, those in the grow find it unleces are and to en of the tried er up and it is to e. So those intest in intelligence tend to I ve 7 - 120ater nator f sha med, especially stace to cont of the greatest number of absences, fifty nine, was accomingle



that of a student of extremely poor health but good mental rating. There is not, however, enough differ noe to make a definite conclusion, but it indicates that low intelligence tends toward irregular attendance.

CSELC: NOW A SELECTION DO NAMED IN.

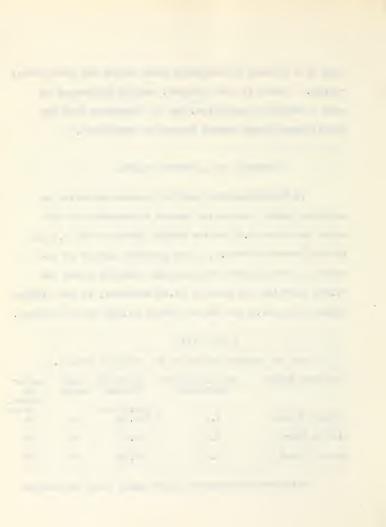
In tabulating the days of absence according to assisted gades, the median number of absences in the upper group was 1.5, in the median group it was 2.5 and in the lowest third 3.5. The greatest number of absences in the highest intelligence motion, group was 34.75, outting the case of 59.25 absences, in the middle group it was 21.5 and in the lowest 55.75; table whiteen.

TALL AIII.

Dars of beence coording to Assigned (rales.

Assigned grades	Median Number Absences	Greatest	Least	unber
inhest Third	1.5	(54.75 or (34.75	0	b2 or 53
Middle Third	2.5	31.5	0	53
Logst Third	2.5	35.75	0	53

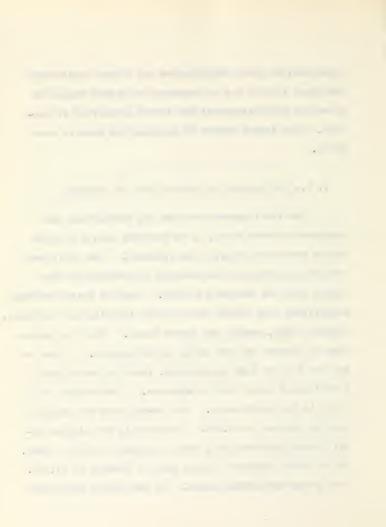
This data confirms to fact again at the sid le



the upper find it not a noce sare to attend regularly to retain high standards; the local group find it irk-

I. C., EUNILWEILP ON THELK DIYOUT DELIVE.

The intelligence quotient and scholar air ere tabulated in sich a v y, as to lot the min of avs ab but from cac group, table fourteen. The case were grouped according to supplements, in sections of five points from one hundred to sixty. sch of the sactions was divided into third, about the trible much ruotients, himlest third, dian and lovest third. Then the dian Thre of alarce of each grount an detail in d. Here was bur one case of 100 scicles in, round in his bi hast intalliance croup with he bances. There were to co e in the 16-19 group. It 90-0 mus to sullan or of above, and 6.265. This was a thing intalliance and int grass this con- into only the comes. In 19 45-30 group fie editor top, of one ed. 15 11.120. The croup had citte m cas s. In the ai le alle the



median of date of meanly of 1.5, tith five come.

The odian in the lorest third was zero, if h is cases considered, if enters. It is ignorial to establish a consistence of the first consistence.

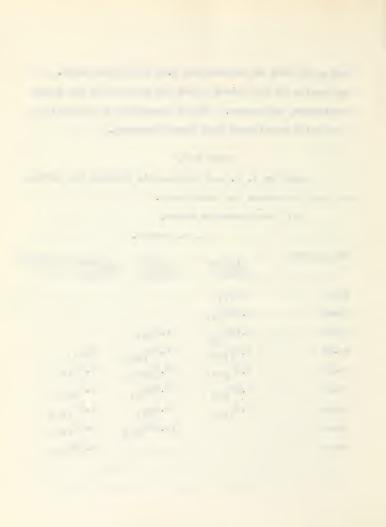
ZAOTA XIV.

Table by I. O. and Scholar hip shoting the edian of days of beence for much group.

(-) The turber of Bass.

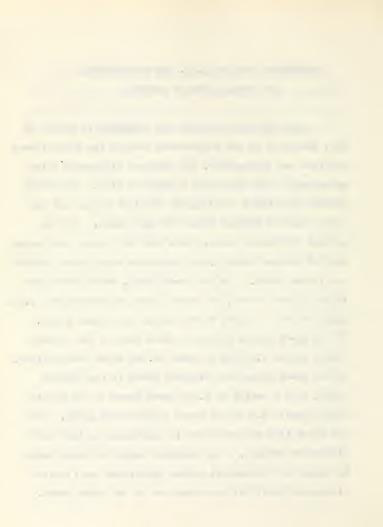
S. T. Triffrya.

c of rolin	l st	1 112	Th (ru-
100	0(1)		
96-09	0.035(2)		
30-04	1.125	1.5(5)	
8: -79	1.5(10)	1.05 (19)	0(2)
30- 11	0.5 (15)	2.0(25)	3.75(7)
75-01	1.25(3)	2.75(3)	7.0(33)
70-70	1.0(1)	1.0(3)	7.75
(E est (C)		11.105(2)	3.11(5)
Can C			1.175

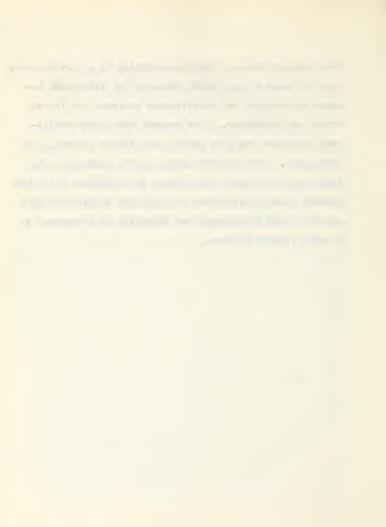


DI REC. EP EN I. C. AND GUOLARBUIP,

own the sea selected to stableted in gours of to. generalise to the differences between the intel'i ence out int and .chol rolip, the greatest difference tring reventy-ning one the love to negative nin . They vero divided into three telling co quotient rouse and the me di m days of absence noted for each group. In the " ort difference roup, " re se tu come, the redian down of above on tell. 5; there were in a fiddle and la as thid. In the 10-09 Coup, sever cotes were in the light thirt, the redicted of absence time 1.35, acuta to find un cases in the mille and lawort thind. Ir tr 13-3 group, comi on casts were in the hi cot ili. din l. i h no tures in the owner two sections. In the 40-49 group were eighten cares in the big est third. with a median of 2.25, seven cales in the dile t ir , median 3.5 and no cases in the third group. For the first tie we have cause in each group in the 30-39 di ference section. Ine greatest number of cares begins to gover in the central roup, diministes and finally disappears until all the cases are in the taird group.



From this we reach a conclusion of illar to a previous one, that in cases of the bright students the difference between scholar him and intelligence quotient had little of act on attendance. The student with high intelligence quotient and good grades pays little attentiant of attendance. The student asking grades about equal to intelligence quotient was require in attendance while the student whose intelligence quotient and scholars in oth are low, jets discouraged and irregular in attendance as a result, table lifteen.



14 La 24.

Table by I. Q. groups and Difference between I.

1. and Colorship; with oding Days of Absence noted
I. Prosps.

(-) rumber of Cases.

Di.forence between		I. C.	Groups
I ind colerant	9	edian Davs	of Absence.
	Highest Third		Lowest Phird
70=79	5.575		
60-00	1.25(7)		
50-70	1.5(18)		
10-10	7.25	2.5(7)	
5,0000	2.5	2.0(39)	2.0(2)
20-27	(9)	1.5(15)	7.375(3)
J. (j. ∞. j.)		2.125	7.5 (11)
(aud ⁽¹⁾		(2)	1.7.
ninus n-0			
			··· (7)

CALAUTIN ON TIME TO PHED.

Only seven of the entire group are norking above

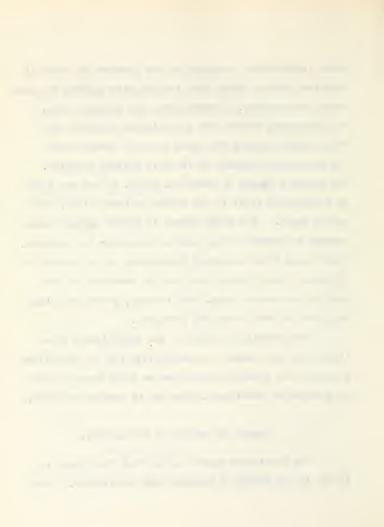
their intelliance consists and the greatest of these is only four point. Will's them the caugaity granted by their matther can and and a temperature of breaking even, the lift was elected the intelligence contient and client random ranging from zero to mine, allowing they are evactically working up to their fullist compaint.

The greatest number of students, forty, in may an appear of differences falls in the trirty to forty class; the matter roup. The least number is in the highest group, seconty to seventy rine, where we have only the students. There seems to be a greatest diminishing at the miner of students in both directions its the exception of the next to lowest group, zero to them, were the or ber the national to bold their own increases.

tints and igh grades as respondible for the deviations in order, but owing to the inture of these carse, as has be resplained previously, they may be drop as employer.

AFFECT OF BEING TO SUPERITE.

The conclusion points to the first the reliable of any effect of absence upon coholomotic. It

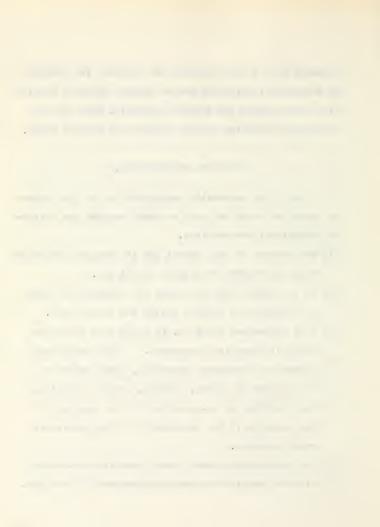


a student is a light will consider on the first pulled to the desire of the light section of the light section of the light section of the light section and introduct the light section of the light

TORE OLD COME NAME OF STREET

in which the study was made so would suggest the followto; additional observations:

- (1) The hudent of rich school are is stronger dyrically than the cut of rear school a.
- (") It is emiddent that the older the statent, the less the correlation tells a scale hand action their.
- () but difference there is, is them carry of by the darks I wheat to invent out. Such about out with the connective process, river addice on the white of walth, refers, process conditions for children, and come or the interpretation of the individual that are seen.
- (*) 2 de [mi tr ti nemel cond approximation and constitution of the first to protect the first transfer transfer to protect the first transfer tran



miting the students to merdo and in placing them in classes where they can readily adapt their capacities.

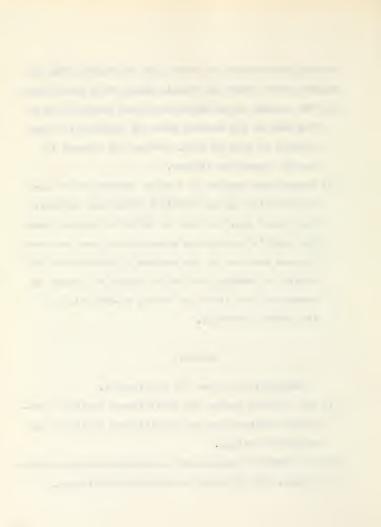
- (b) he absence is carefully noted and co-operation on the part of the teacher makes it possible for the student to make up work, whether the absence is due to trumpy or illness.
- (U) Unnecessary absence is largely avoided by the administration and an efficient attendance officer.

 one years ago, the lack of effect of absence upon the pupil's scholarship grades might have been said to have been due to the teacher's careles has and laxity in crading, but not it cannot be funged so because of the close and active co-operation of the forces mentioned.

- 150111 24-1

in which in draw his concludants

- (1) The section degrees and investigate our terms and to dear and to dear the sections.
- (2) _______ for a non-facility of charteness cor-



- (3) The attendance becomes more regular as we go from high to edian intelligence quotient, and a re irregular as we go from median to low intelligence quotient.
- (1) Attendance is most irregular in the case of students whose grades are considerably lover than intelligence quotients.
- (5) For the bright student, disrepancies between grades and intelligence quitients have little or no effect upon attendance.
- (6) None of the conclusions have high enough statistical probability to be considered as having any extraordinary influence upon attendance regulations and the grading system.

-UGCESTIN ...

ance records with accuracy, the detailed account of attendance histories,, reasons for absence, the cause of leaving colon, at cetera, would do uch in securing ore specific results in a study of this sort and be of value to the administration of the individual school, as cell



vidual cases is hard to secure, especially if so e time has elapsed since the case occured. This is being recognized in general and the tendancy is to secure an accurate detailed record of the altendance his tray of the individual. The need not only the mental ration, the daily grades, the attendance record of the student, but a more detailed personal history record, accurately kept in a night process of the student.



PPLHDIX

- I. Bibliography
 - II. Data used in this tudy.



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DATA 15 D In THIS STOY.

In listing the data used in this study e have six columns:

- he number of the student essigned for in atile c tion.
- 2. he group rating or letter ar de which was found in terms of the intelligence quotient and ar des us the classification of the advisors.
- 3. The intelligence quotient.
- 4. He students class rade empressed in the sters
- 5. The difference between the intelligence motient and the class grades.
- the number of days beent.

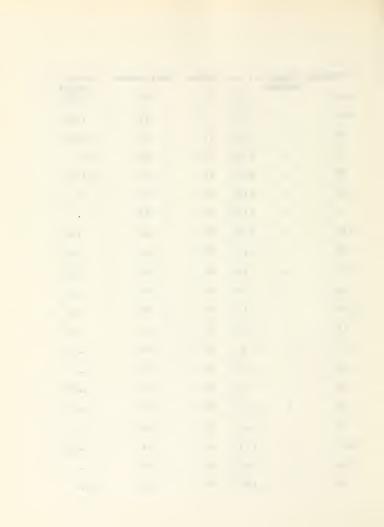
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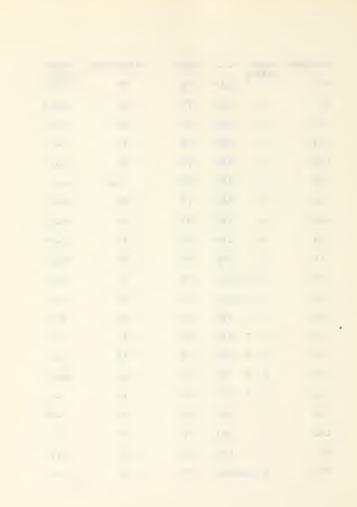
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02	9	147	{12	65	25
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)4		135	14	61	1.5
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tudent	roun	ī	r de	difference	ys
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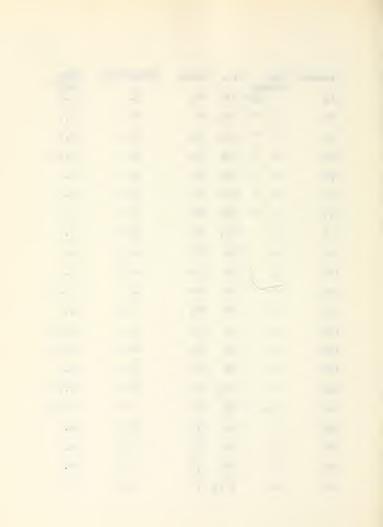
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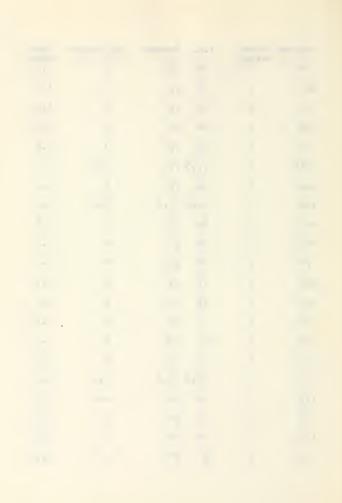
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